

The MINES of ARIZONA

This department is under the direction of Mr. W. E. Defty, the well known mining engineer, who will carefully scrutinize all matters relating to mining in order that only reliable information regarding legitimate enterprises shall find a place here.

The Republican would be pleased to receive information from any part of the state regarding the development of the mining industry. All communications should be addressed: Mining Department Arizona Republican.

General Review of Metals and Mining Conditions

The coppering the past week has developed an extraordinary strong tendency as all factors have combined to favor the strong position. Unprecedented demand for copper from domestic and foreign sources coupled with the fact that the present output of the refineries of 100,000 lbs. monthly is not large enough to cover the enormous requirements which are being met.

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There is a great deal of attention and investigation being given to all over Arizona, the central point of attraction being of course the wonderful copper district. An endless amount of bountiful and bosh is being written regarding the district and this is hastened and rebuffed until it absolutely loses its effectiveness. The discovery of another mine will go more to aid the district in present and future development than all the editorial notes that can be written. The district around Kingman was an important mining center thirty years ago and the difficulties and lack of facilities were a hundred fold what they are today. But the wild cat is ever prowling around a new camp and the small speculator is ever ready to take a chance in what is openly declared to be a gamble.

The improvements and advancements in Arizona have been varied and many, and means much for the future in mining in all its phases. The only blot on the horizon is the strike at Clifton.

The advantages to the ore shipper has been made manifest by the lowered freight rates to the smelters and the modification of smelter charges.

Renewed attention was given to mining interests after the 80 per cent law was declared unconstitutional by the supreme court of the United States. Now if we can avoid the addition of any further fee laws of this nature to the statute books and settle down to the actual work and settle down to the actual work.

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an honest and sincere development of our state will all soon see it abuzz with attention and development. As it is there has been a great many important mining deals but they have been mainly in properties turned over under contracts and options and some smaller cash deals.

Probably the most important and permanent gold discovery is the United Eastern at Eastman in copper the Shattuck has developed the great diversity of ores. The Ray Hercules and the Magna at Superior have proven an additional area of their disseminated ore by drilling. The Hercules has at present two drills in operation and two additional ones will be operating within the next ten days. In milling probably the most notable improvement is the perfecting of the flotation process. At Inspiration. There has been improvements in milling processes at Tom Reed, Catman, Commonwealth mine and Pearce. But the most important discovery and successful determination in ore treatment is the perfecting of the process for separating the values from the copper carbonate ores at Ajo. (New Cornelia Copper).

The new smelters and improvements or old ones are very important to the state. Foremost stands the large plant at Chihuahua, (Jerome) additions and improvements at the Humboldt, new smelter of Arizona Copper and others of minor importance. The new year will see these advancements greatly aided.

Facilities for shipping ore has greatly improved. A new narrow gauge railroad has been constructed from Arizona and Eastern at Webster to the Magna mine at Superior. This has helped the district considerably and especially the handling of small batches of ore.

The railroad from Gila Bend to Ajo is under construction and will be completed by the beginning of the year. Although built for the sole accommodation of the New Cornelia company, it will assist mining developments considerably to its completion. There are many other points of interest that might be called attention to. But the great boom and endeavor for the successful advancement of all Arizona interests will come when those already interested and those outside willing to come in are given the assurance that the prospectors to a unit will afford all helplessness and a square deal to all and it seems very evident that Arizona are ready to meet this demand and requirement. Then Arizona will come by her own.

Location of a Mining Claim
Location of a mining claim is not valid unless based on a mineral discovery within the lines and on the actual ground of the claim, although it is known that a large number of locations are made without mineral discovery.

It has been held by the Land Department in Washington and by many courts that a valid location of a mining claim may be made whenever the prospector has discovered any indications of mineral, so that he is willing to hold a location and money for smelter with the expectation of finding ore. Applicants for mining patents have their ground examined by a federal government mineral examiner. The location of a location, attempting to hold a location without a mineral discovery cannot be fully defined. The locator is entitled to be protected in his location.

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his occupation of the ground, especially while trying in good faith to make a mineral discovery. Under the law, other locators are also entitled to go upon the ground, so long as it can be done peacefully and without interfering with the first claimant and under such conditions to attempt to make a discovery. In the case of these rival claimants the claim goes to the one making a discovery first.

Exposed Reef Mine
This property near Patagonia and comprising four claims has been leased to David and Shannon, for a period of two years. The mine is owned by Albert Des Santos and J. B. Shannon of Bisbee. The property has a tunnel 750 feet in length which cuts a six foot ledge of seven per cent copper ore and is stated to also carry high values in gold and silver.

The property is situated two miles southeast of Patagonia in Alam Guleh, at the south end of Red Mountain, between the old Flax mine and the well known World's Fair silver mine.

Calumet & Arizona
The directors of the Calumet & Arizona will meet on Dec. 7 to take action on the quarterly dividend. A dividend of \$1 was paid in the last quarter making \$2 for the first nine months of the year and it is expected that the dividend for the year will be \$3. The company has a total of \$1,000,000 in convertible bonds to be issued for financing the development and equipment of the New Cornelia property and that the treasury is now in shape for dividends more nearly approximating the earnings.

Taking the price of copper at 18c and the company is believed to be earning at the rate of \$12 per annum so that with the metal market firmly established on a 20c basis, dividends on Calumet & Arizona should be far larger than those declared so far.

Old Dominion
Old Dominion is now earning at more than double that rate but owing to the water troubles early in the year the production will be slightly less than for last year and earnings for the 12 months will not equal the present rate.

Old Dominion is, however, now in splendid shape for the future and with the prospects of a sustained metal market around current prices stockholders have the promise of substantially higher dividends next year.

Old Dominion of Maine, the holding company, has declared a quarterly dividend of \$1.50 a share.

In March Old Dominion paid 50 cents, in June \$1 and in September \$1.50.

With the current declaration of \$2 a share, Old Dominion will have paid a total of \$25 a share of \$7,220,487.

Costs at the Old Dominion are reported around \$1.20 on a production expected to be about 20,000 pounds for the current year. The output was diminished considerably by reason of the spring floods.

The new Inspiration mill at Miami is now handling 200 tons of ore a day and is to be worked up gradually upon completion of additional concentration units, to full capacity of 14,000 tons. This, it is expected, will be reached in January.

The present copper production of 4,000,000 pounds a month will nearly be trebled next year. With copper at 18 cents, the increased output value would reach the astonishing figure of \$18,500,000 annually. The production cost is expected to be even less than 7 cents a pound.

The November turnout of copper is expected to reach 6,000,000 pounds.

Ray Consolidated
The Ray Consolidated will pass the 7,000,000 pounds mark in copper yield this year, with costs a shade under 9 cents a pound, showing a profit of about \$6,500,000. At the end of the year the company will convert into stock a bond issue of \$2,000,000. The treasury surplus now is over \$5,000,000.

Magma
Owing to the richness of the ore hoisted, even a lower cost is reported from the Magma property at Superior, where, it is asserted copper is being produced at only 5.72 cents a pound.

This mine has a small concentration mill, but is shipping the rich ore to the Hayden-Stone corporation, is one of the remarkable mines of the southwest and the wonder is that it is not operated on a much larger scale.

Tungsten Property
The Pittsburgh Tungsten company which have been holding and operating their copper interests in the Cave Creek 35 miles north of Phoenix, are increasing their working force considerably for the purpose of extracting as much of the tungsten as possible during the high price of the metal. Developments have been carried on very quietly during the last year but sufficient ground has been opened up to enable mining of the ore to be carried on much more extensively.

Some of the ore from this property is beautiful in appearance and frequently carries fine metallic elements.

Abundance of Aluminum
Aluminum is the most abundant of all the metals. In the form of its oxide, alumina, it constitutes about 15 per cent of the earth's crust. Yet until recent years it was a curiosity; there were only a few hundred or few thousand pounds in existence and its value was \$14 or \$15 a pound. Within a generation it has become a commodity, selling at about 20 cents a pound. The entry of aluminum into the field of useful metals came with the discovery that it could be extracted from the mineral bauxite, a clay-like substance.

This mineral itself is by no means plentiful, but known deposits are sufficient to make aluminum an important competitor of certain metals, such as copper and tin, in a good many lines of work.

Already aluminum has displaced steel in certain classes of construction where strength is required in combination with extreme lightness, such as in the manufacture of flying machines. An alloy known as duralumin, containing about 95 per cent of aluminum, is claimed to have qualities as good as

HARNESSING OF THE COLORADO

Surveyors Have Left Phoenix to Explore Girard's Power Sites—Mighty Impetus to Mining Activity Depends on Juice Supply

A project which has for its ultimate purpose the supplying of electric power to nearly every mining community in Arizona and Southern California, will be in working order in perhaps eighteen months. This is what is to be done when the mighty forces of the Colorado river are properly harnessed and the terrific power of that swirling stream actually put to use in supplying heat, light and power to all of the adjacent country.

Toward this end, James B. Girard, one of the best known engineers of the southwest, has been devoting his efforts for the past several years, and in a few weeks the work of building the first power unit will have begun in earnest.

From this first station it is expected to develop something like 20,000 horsepower, and this can successfully be transmitted up to a distance of three hundred miles, or within a radius of sufficiently large proportions to enable a majority of the mining enterprises of the northern part of this state and Southern California to receive electric power from the new source.

It is understood that both the San Francisco and the Southern Pacific roads have made inquiries regarding the possibility of securing electric power from the new project for the purpose of electrifying their mountain divisions in that part of the country, especially in the neighborhood of the continental divide. And it is also stated that the new copper mines at Ajo and Cornudas may later be supplied with the juice generated by the Colorado.

When one considers the vast amount of valuable ore which is located in the northern wilds of the state of Arizona, a region which needs only ample power facilities in order to be understood just how great will be the benefit of such a power system, and on the completion of the enterprise, one can look for some unprecedented activities in the way of developments by the territory which will be served.

those of good Bessemer steel, although it is only one-third as heavy. This alloy possesses great hardness when annealed, and its melting point is above 1200 degrees F. The great future of aluminum lies in the perfection of a process whereby it can be commercially extracted from the unlimited deposits of alumina-rich clays and rocks, which exist in all parts of the world. The alloy which shall yield really cheap aluminum holds out boundless possibilities. The chemist or investigator who can devise the needed process of extraction will not be forgotten by succeeding generations.

Quartzite
A great deal of attention is being given to this district at present for the recovery of the auriferous placer from the very large area of gravel. All prospectors have been working for the last 50 years by the primitive operation of dry washers and a very large amount of gold has been recovered by this method.

The present effort is to save the gold contents by the use of machinery of this sort by the process, as this country is waterless.

Quencher pulverizing machines are being used by the various operators to disintegrate the cemented gravel, the latter being carried to a Stebbins dry concentrator, so far the test operations have proven highly satisfactory, but actual operations to extract have not been started. But there are four companies which are very near the completion point of their plants; the success of these will be watched with interest. There is no question of doubt about the extensive areas of gravel and of their carrying gold in remunerative quantities.

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which happened to be in the path of the mad waters was swept away and nothing had ever been built which could successfully resist the mad currents.

After a thorough study of the matter and an investigation as to the requirements, Mr. Girard devised what might be called a multi-cellular dam, or one constructed of a number of honey-combed sections, which when flood time came, could be opened so as to permit an almost unobstructed sweep of the onrushing waters. This dam has since been protected by extensive patents.

Then came the matter of selecting some available sites, and following an exploration of the Canyon for a period covering over two years, Mr. Girard was able to find six which about filled the requirements, all of them being on the upper part of the stream. The United States government had refused to allow any dams to be erected in the Canyon proper, consequently all of the sites had to be located above this stretch of the river.

The first of these sites to be developed is one which is but 21 miles from Phoenix Springs, Ariz., and the Santa Fe is already at work building a track from that point to the power site. The surveying and exploration party left Phoenix only last week, and in a few weeks the work of building the first power unit will have begun in earnest.

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